



Office of Civilian Radioactive Waste Management

RW/EM TRANSPORTATION MEETING

Augusta, Georgia - October 18, 2001

OVERVIEW OF TRANSPORTATION PROGRAM AND SITE PLANNING & LOGISTIC INFORMATION NEEDS

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Overview of Reference RSC Strategy

Scope:

- Reference RSC Strategy based on Draft RFP dated Sept. 1998
- DOE will purchase services and equipment from Regional Servicing Contractors (RSCs) who will perform waste acceptance and transportation operations
- DOE will maintain primary responsibility to the States, Tribes and local units of government for assuring appropriate interaction and consideration of their input on transportation of SNF and will retain final approval of all transportation routes
- The contractors would accept spent fuel from generators and supply casks and equipment for transporting spent fuel to the Federal repository
- The various utility or government sites would be organized into “Servicing Regions” with an individual RSC responsible for all waste acceptance and transport within their assigned region

Overview of Reference RSC Strategy

Key RSC Responsibilities Include:

- **Provide all hardware, including transportation casks, canisters, and ancillary lifting equipment, including equipment to interface at the Federal repository**
- **Comply with applicable NRC, DOT, State, local and tribal regulations, and DOE Orders**
- **Interact with those State, local and tribal governments as appropriate**
- **Provide training to Purchaser and Federal site personnel in cask operations**
- **Provide all waste acceptance and transportation services necessary to move spent nuclear fuel from the Purchaser's sites to the Federal repository**

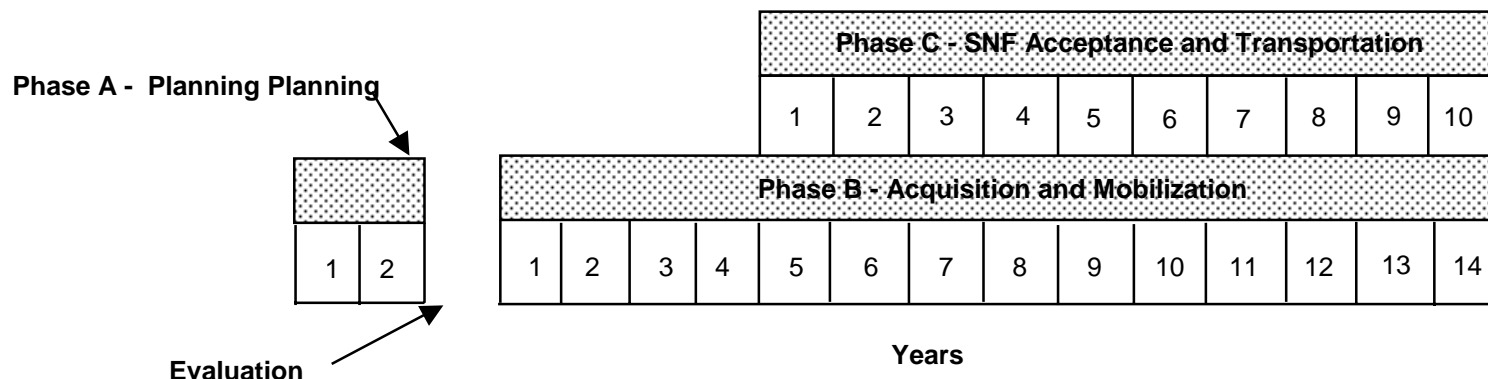
Overview of Reference RSC Strategy

Contracts will be accomplished in three Phases:

Phase A: Development of site specific and regional servicing plans, followed by authorization of one RSC per region to continue work into Phase B.

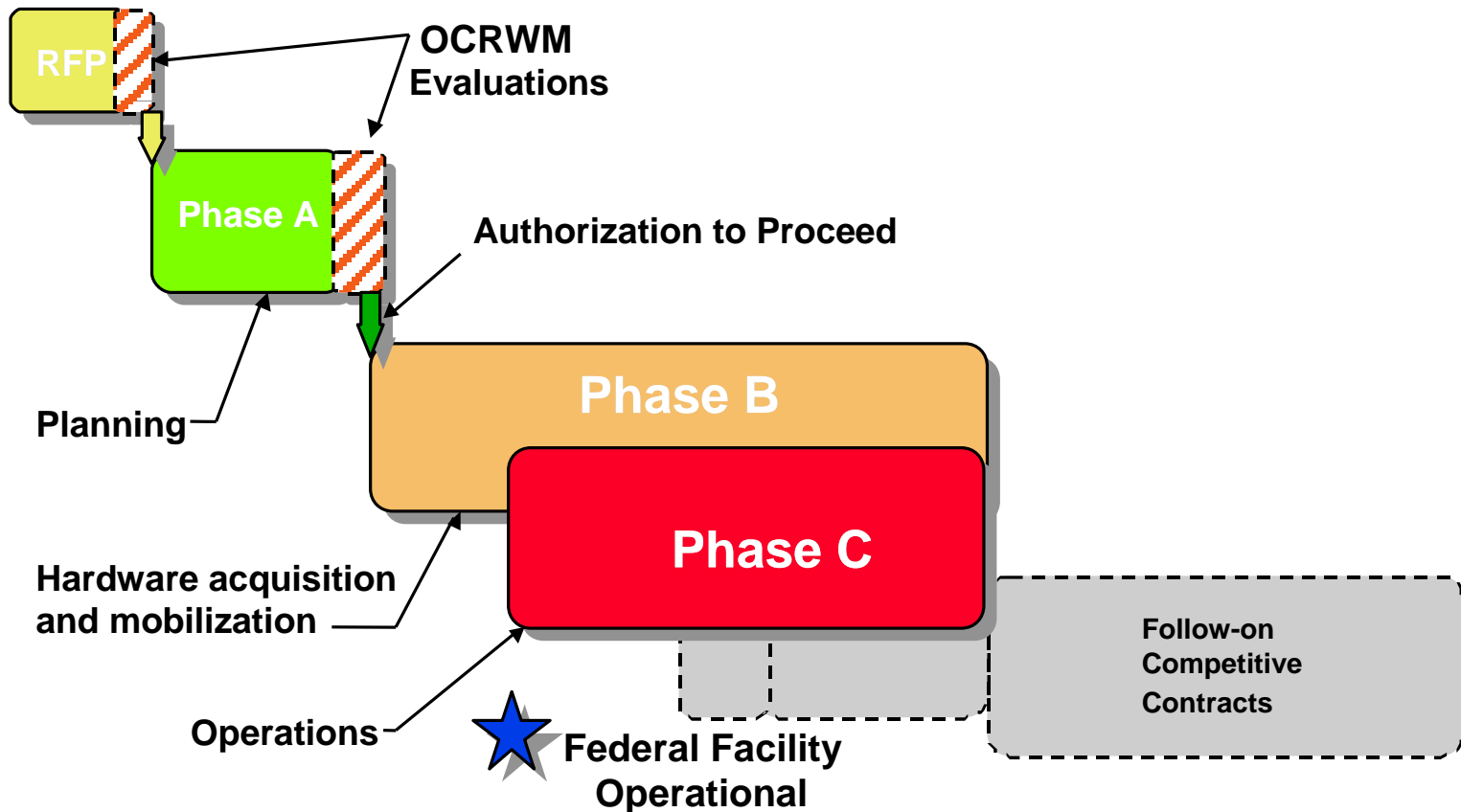
Phase B: Mobilization of transportation services, finalization of transportation routes and training, acquisition of transportation hardware including casks and transporters.

Phase C: Performance of waste acceptance activities and transport of spent fuel to the Federal repository.



Reference RSC Strategy

RELATIONSHIP OF CONTRACT PHASES



RW Current Activities

Acquisition Strategy Enhancements Being Considered

- **Key Factors Affecting Implementation of Reference Strategy**
 - **Uncertainty in MGR availability date (litigation risks, funding uncertainties)**
 - **Political or 3rd party legal interdiction in repository start-up or transportation operations**
 - **Inability to underwrite business risks under current procurement rules**
 - **Current utility contracts do not facilitate Reference RSC strategy**
 - **Utility consolidation and re-structuring does not facilitate current RSC regional structure**
 - **EM transportation needs were not included in original strategy or regional construct**

RW Current Activities

Acquisition Strategy Enhancements Being Considered

- **New construct is focused on addressing uncertainty of initial five years of MGR operation where risks are expected to have the greatest business impacts**
- **Structured to provide flexibility in contracting and pricing approaches**
- **Separates procurement activities into two key elements.**
- **Retains ability for continued use of private industry capabilities to the maximum extent practical**
- **Minimizes financial impacts resulting from uncontrolled delays associated with MGR availability or operating capabilities, or in initiation or interruption of transportation activities**
- **RW provides cask maintenance facilities and services**
- **RW provides communications and enroute tracking**

RW Current Activities

Approach Being Considered Incorporates Two Key Elements

First Element - Planning and Mobilization

- **Effectively incorporates Phase A & B work under a Transportation Coordination Contractor (TCC)**
 - **Contractor operates under a cost reimbursable performed based contract**
 - **Responsible for site assessment and integrated planning**
 - **Support definition and acquisition of transportation fleet equipment including - casks, railcars, trailers, auxiliary equipment, and rail escort cars**

Second Element - Transportation Demonstration

- **Incorporates Phase C Transportation Services Acquired By DOE from multiple Servicing Contractors (SCs)**
 - **Focused on initial 5 years of MGR operations**
 - **Based on a DOE cost type contract could transition to fixed price/rate in 5 years or less**
 - **SC provides transportation and site services only**
 - **Based on using government furnished equipment**

RW Current Activities

Existing Regional Structure May Be Re-aligned

- Consider the re-alignment and consolidation of commercial utilities
- **Incorporate servicing of EM-sites**
- Provide for more effective use of resources and equipment
- Minimize number of RSCs servicing a single utility group or **various EM-sites**
- Maintain adequate competition

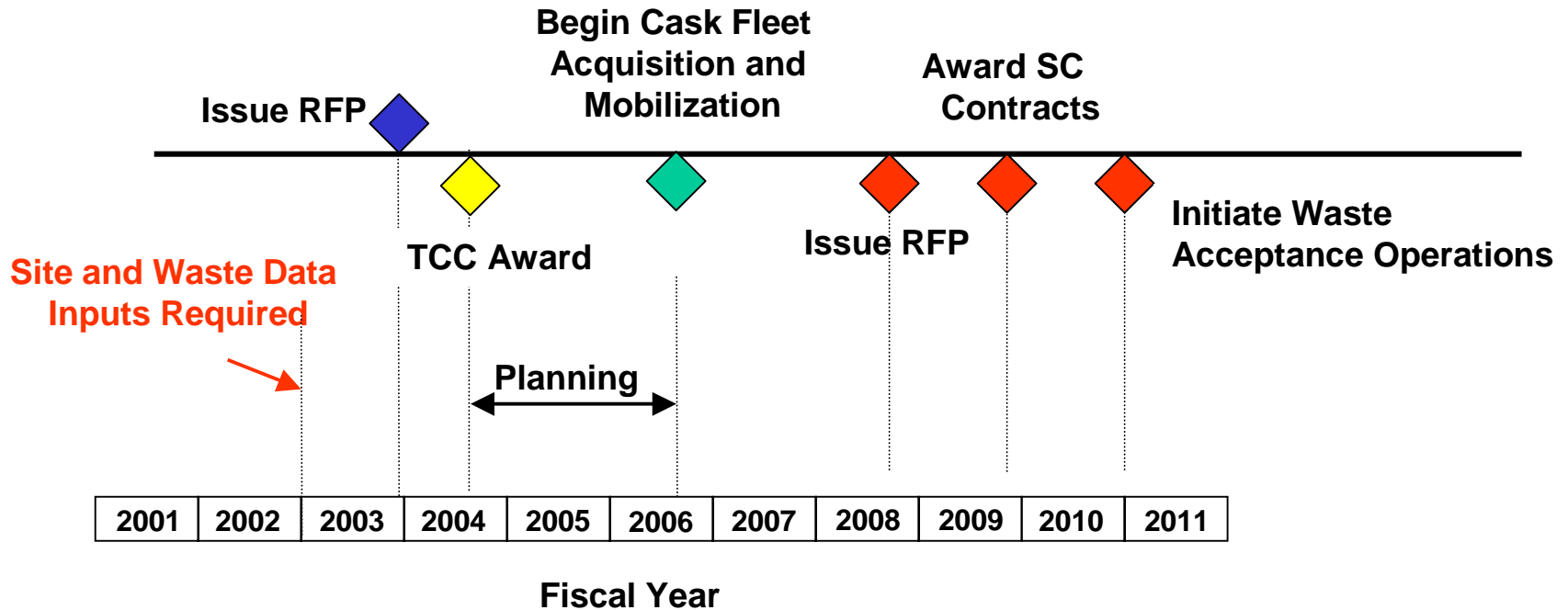
RW Current Activities

Possible Start-Up Strategy

- **Initiate overall system planning, regional re-alignments studies, and workscope development**
- **Acquire site servicing data and initiate development and preparation of site servicing plans**
- **Determine initial fleet equipment and hardware needs**
- **Determine cask system needs**
- **Prepare procurement documentation**
 - **Equipment acquisition**
 - **Revise RSC RFP**
- **Initiate procurement of long lead transport systems**
- **Begin operations**

RW Current Activities

Illustrative Transportation Schedule



Site Planning and Logistic Information Needs

Site Planning and Logistic Information Needs

Define Specific Site Acceptance Services Desired

- Identify Special Equipment needs Unique to the Site
 - Cask handling equipment
 - Cask servicing equipment or tools
 - On-site, handling, transfer or transport equipment
- Identify On-Site Services Desired
 - Facility survey and evaluation
 - Equipment or procedure training needs
 - Service Technicians for;
 - Administrative assistance
 - Cask handling and loading
 - Cask decon and mobilization for transport
- Identify Technical and Operational Information
 - Waste and Canister descriptions
 - Site specific operating considerations or limitations

Site Planning and Logistic Information Needs

RW Site Servicing Data Input Needs

- Waste descriptions sufficient to support transportation cask design, licensing, and subsequent transport operations.
- Site servicing information including:
 - Site rail and road capabilities.
 - Modal limitations or considerations including inter-modal needs.
 - Routing preferences or limitations.
 - Capabilities for routine cask maintenance and decontamination.
 - Assessment of near site transportation infrastructure capabilities.
 - Site handling interfaces, restrictions and operational protocols.
 - Special equipment needed to support on-site cask operations.
 - Site limitations or restriction that may impact cask operations.
 - Specific DOE Orders that are applicable.
 - Site access limitations or considerations for RSC personnel.
 - Access clearances
 - Site safety training
- Servicing schedule inputs.
- Identification of site specific institutional or environmental sensitivities.